Nucleonica comments to Version 70 23/07/2007

Free access comments IV:

General

1) The link to the element info (from mass activity calculator, decay engine, D&S, Reference data) still to the old htm files. Update to wiki files.
2) Dialogika did a good job with the "reactor" logo in the webKORIGEN module. Could you also do graphic logos for a) Physical constants - perhaps a large Greek π, b) Universal Nuclide Chart (a small decay chain?) c) Nuclear News d) forum e) mass activity calculator (small scale balance?).

Portal

3) Mass Activity calculator: always show the conversion table . not only when update is clicked.
4) The Applications drop down menu in the taskbar lists the Decay Engine and Transport and Packaging. These should NOT be in the Free Access. Also the word "Application" should be replaced by "My Applications"
5) Ask an expert. When I click on this I go to the wiki Help:Ask an Expert. However I cannot enter the Discussion ("you do not have access to this feature. Please consider upgrading your membership".)
6) Clicking on the "Nucleonica wiki" on the main portal page should tahe us directly to Help (it does not, at present it takes us to main wiki menu). Clicking directly on the Help in the taskbar is hoever correct.
7) Calculator; clicking on the botton right of the calculator, there is a magnifier with value 100%.If I change this to 200%, then the text becomes larger but the window stays the same size. It would be nice is the window also doubled in size. If this cannot be done easily then please remove the magnifier option.
8) Forum: When I click on forum and go to the main forum page, all the links in the left hand column (General, Nucleonica Hot topics) are very difficult to click on. I have to position the mouse very exactly. This is not the case for the other links which are much easier to click on.
9) When I open an alert (upgrade request) by clicking on New Alert. If I then click on the alert I should go directly to the pending orders section.

Nuclide Explorer

10) In the Standard chart, isomers are arranged from left to right: this is wrong. For nuclides having only a ground- and m-state, the representation is correct. When an n state is added, it must be to the left of the m box.
    This problem arises in ALL colour themes EXCEPT Karlsruhe (where it is correct!)
11) Select Ag192 in the NE. Notice the two "white" metastable states. Now go to the Mass Activity calculator, decay engine, D&S. The box is not shown correctly. This needs to be corrected.
12) Select colour scheme: the restore button must restore the original colours! In the case of Free Access, this means the "standard" colours should be restored. (otherwise users cannot get back to the Standard colour scheme after making a change – the only way is to logout and login again!
13) When I first click on the NE, the mouse over function (e.g. 64 Gadolinium 154) does not work. When I zoom into a particular region, it does then work (but is a bit jittery), Then when I zoom out to the full chart it works again. When I logout, and then in again and click on the NE, same problem – it does not work.
14) When I select a nuclide, e.g.U238, I zoom into this part of the chart. Now with the right mouse button I select "show decay chain" (or I select this from the taskbar Views). The decay chain is still shown with the same magnification level. It would be better to use a default magnification level of "61" for showing a decay chain (because one would like to see all daughters in one window. Thereafter I can zoom in etc,)
15) Nuclide Explorer: Previous bug still exists. When changing the size of the browser window, then using the browser cursors and trying to select a nuclide, the chart doesn't reacts anymore→ has still to be done

Administration

16) Google Analyticis still does not work for the Nucleonica application
17) Special modules tab. This is good step forward. However it really only works for the RDD module. You say in you mail.. (this can easily be extended for further future special modules). Could you extend this for three new dummy modules called A, B, C? Later we can change the names A, B, C

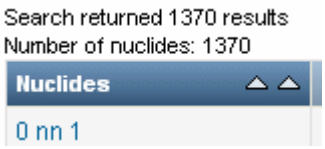
Nuclear Data Retrieval:

18) Remove the first tab level (Database/Forum) – as in previous versions (see fig)
→ tab title is removed, but the frame still exists: remove it also

→ Excel download; remove coma in the decay mode column in "ß,-" "ß,+"

19) Search:

- Search: Now that the counting of the decay modes and the nuclides is clarified, can you put the numbers on the top of the list, e.g. for a ß- search:
  Search returned 1473 results
  Number of nuclides: 1350 (as in advanced search)
- Searching for Stable/Primordial we get 73 Ta 180 with a half life of 8.08 h and without abundance: this is wrong. The right nuclide is 73 Ta 180m, the isomer of preceding one and unique metastable primordial nuclide.
- Can you sort the nuclides using MAT_INDEX rather than A, as in advanced search?
- In the table print option list can you add daughter product, branching ratio, and the Q-value?
- By verifying the counts of nuclides with the various decay modes, I found differences for *ß-,SF* for *ß-,d* and for *ß+,2p*. The reason was that the real value of RTYP did not match exactly the expected decimal value, e.g. 2.71999999999998 rather than 2.72. I have corrected manually these values, and the counting works now fine. Nevertheless, real values should not be checked trough a simple equal operator: always use an ad hoc uncertainty interval (e.g. ±1E-7) to check the numbers.
- First time I carry out search DB, in the Nuclides column, two triangles are shown in same direction – there should only be one e.g.



20) Reset button only clears the entries in the Results table. It should also clear/reset all values in the input selectors, especially *Element*, which should also be erasable by the space bar on the keyboard.
21) ✓Radiation Search/Input box for the energy: add two extra input for energy so the user can make cross-search with a maximum of three energy lines (AND command).

→ the Energy label should be before the first input box; also the radio button gamma & X-ray

22) Advanced Search (upgrade):

→ If we select all output columns: put long column headers in multiple lines in order to save space, but put data (e.g. half life) always in one line: has still to be done

Check Specific gamma dose rate: e.g. for Cs134m, search gives 4.16E-1. The derived data gives 1.98E-3, D&S modules gives 8.33E-3! (Jean, Raymond)